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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/20/2004

Sughrue Mion Zinn MacPeak & Seas PLLC 2100 Pennsylvania Avenue NW Washington, DC 20037 EXAMINER

BERCK, KENNETH A

ART UNIT PAPER NUMBER

2879

DATE MAILED: 02/20/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/645,599	08/25/2000	Hiroaki Nasu	Q60610	4612

TITLE OF INVENTION: SPARK PLUG AND PRODUCING METHOD THEREFOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	05/20/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

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- Applicant claims SMALL ENTITY status.
   See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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02/20/2004

Sughrue Mion Zinn MacPeak & Seas PLLC 2100 Pennsylvania Avenue NW Washington, DC 20037

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Depositor's name
(Signature
(Date

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EXAN	MINER	ART UN	IT	CLASS-SUBCLASS	]	
BERCK, KENNETH A 28				313-118000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			names of	nting on the patent front page, f up to 3 registered patent a	ttorneys or 1	
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or 2			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.				d the names of up to 2 regist or agents. If no name is listed inted.		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):	);
☐ Issue Fee	☐ A check in the an	amount of the fee(s) is enclosed.
☐ Publication Fee	☐ Payment by credi	dit card. Form PTO-2038 is attached.
☐ Advance Order - # of Copies	The Director is Deposit Account No	s hereby authorized by charge the required fee(s), or credit any overpayment, to Number(enclose an extra copy of this form).
Director for Patents is requested to apply the Issue Fe	e and Publication Fee (if any) or to re-appl	ply any previously paid issue fee to the application identified above.
(Authorized Signature)	(Date)	
NOTE; The Issue Fee and Publication Fee (if recother than the applicant; a registered attorney or interest as shown by the records of the United State	agent; or the assignee or other party in	e n
This collection of information is required by 37 C obtain or retain a benefit by the public which is tapplication. Confidentiality is governed by 35 U.S. estimated to take 12 minutes to complete, includin completed application form to the USPTO. Time case. Any comments on the amount of time you suggestions for reducing this burden, should be separent and Trademark Office, U.S. Departmet 22313-1450. DO NOT SEND FEES OR COMPLETED TO: Commissioner for Patents, Alexandria,	o file (and by the USPTO to process) an C. 122 and 37 CFR 1.14. This collection is gathering, preparing, and submitting the will vary depending upon the individual ou require to complete this form and/or ent to the Chief Information Officer, U.S. at of Commerce, Alexandria, Virginia PLETED FORMS TO THIS ADDRESS.	n se e al or S. a
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ubig.o, 2 0 2	,		2879			
			DATE MAILED: 02/20/200-	4		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 490 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 490 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	—— <i>1</i> "
	09/645,599	NASU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Kon A Porek	2070	
	Ken A Berck	2879	
The MAILING DATE of this communication appr All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ( ) or other appropriate committee in the committee in	in this application. If not included nunication will be mailed in due course	± THIS e initiative
1. This communication is responsive to 10/20/2003.			
2. The allowed claim(s) is/are <u>1-16</u> .			
3. $\square$ The drawings filed on <u>08 November 2000</u> are accepted by			
<ul> <li>4.</li></ul>	nder 35 U.S.C. § 119(a)-(d)	or (f).	
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.		
2.   Certified copies of the priority documents have	e been received in Applicati	on No	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receive	ed in this national stage application fro	m the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority user reference was included in the first sentence of the specific	ation or in an Application Da	ata Sheet: 37 CFR 1.78.	cific
<ul> <li>(a)  The translation of the foreign language provisional a</li> <li>6. Acknowledgment is made of a claim for domestic priority used in the first sentence of the specification or in an Application</li> </ul>	nder 35 U.S.C. §§ 120 and	or 121 since a specific reference was	included
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this communication to file this application. THIS THE	a reply complying with the requiremen REE-MONTH PERIOD IS NOT EXTER	its noted NDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE or declaration is deficient.	OF
8. CORRECTED DRAWINGS ( as "replacement sheets") must			•
<ul><li>(a) ☐ including changes required by the Notice of Draftspers</li><li>1) ☐ hereto or 2) ☐ to Paper No</li></ul>	son's Patent Drawing Revie	w ( PTO-948) attached	
(b) including changes required by the proposed drawing of	correction filed, which	ch has been approved by the Examine	er.
(c) including changes required by the attached Examiner			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the margin according to 37 C	he drawings in the front (not the back) of FR 1.121(d).	of
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR 1	sit of BIOLOGICAL MAT THE DEPOSIT OF BIOLOG	ERIAL must be submitted. Note the ICAL MATERIAL.	е
Attachment(s)			
1 Notice of References Cited (PTO-892)	5  ☐ Notice of Inf	ormal Patent Application (PTO-152)	
2 Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413), Paper No	
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	3), 7☐ Examiner's A	Amendment/Comment	
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's 9 ☐ Other	Statement of Reasons for Allowance	
		. •	

## DETAILED ACTION

The Amendment filed 10/20/2003 has been entered.

The Amendment overcomes claim rejections under 35 USC 112.

## **Drawings**

The formal or substitute drawings were received on 11-8-2000. These drawings are approved.

## Allowable Subject Matter

Claims 1-16 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art of record neither shows nor suggests a spark plug with a main metal shell provided outside the insulator coated with a complex chromate coat that contains a chromium component comprising at least 90 wt% of trivalent chromium and at least one component of a phosphorous component in an amount of 1 to 15 wt% and a silicon component in an amount of 5 to 75 wt% as cationic components, in combination with other claim limitations. Kanao discloses improving the tip portion of the center electrode but fails to clearly point out a complex chromate coat on the main metal housing. Fukuoka discloses an anticorrosive treatment for the surface of a non-ferrous metal but fails to clearly point out the treatment being used for the structure of a spark plug and the treatment being able to withstand temperatures within the range of the Kanao sparkplug.

Regarding claims 2-16, dependence on a base claim and the reasons stated above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ken A Berck whose telephone number is (703)305-7984. The examiner can normally be reached on Mon-Fri 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (703)305-4794. The fax phone number for the organization where this application or proceeding is assigned is (703)308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

